



AFS-205 FEDERAL AVIATION ADMINISTRATION NATIONAL SIMULATOR PROGRAM



Flight Simulation Training Device Qualification Guidance

Acceptable Alternate Means of Airplane Flight Simulator Qualification in Accordance with Advisory Circular (AC) 120-40B Qualification Guidance Bulletin 05-01

1. **Purpose:** Advisory Circular (AC) 120-40B, Airplane Simulator Qualification, Paragraph 8a, Evaluation Policy, authorizes the National Simulator Program (NSP) Manager to accept alternate means of compliance for airplane simulator qualifications. The NSPM has approved the use of several different publications as an alternate means of compliance with AC 120-40B. This bulletin lists and outlines the procedure for using the currently accepted alternate means. The alternate means defined in this bulletin will continue to be accepted by the NSPM for new simulator qualifications until new U.S. regulations become effective under 14 CFR Part 60.
2. **Procedure:** The NSPM has determined the following alternate means of qualification for airplane full flight simulators are acceptable.
 - a. International Civil Aviation Organization (ICAO) Manual of Criteria for the Qualification of Flight Simulators, Second Edition.
 - AC 120-40B, with the exception of appendices 1 and 2 will continue to be used for the airplane simulator qualification along with all applicable requirements under 14 CFR 121 appendix H.
 - Qualifications using alternate means based upon ICAO standards only apply to level D airplane flight simulators.
 - Simulator sponsors wishing to meet the most recent international standards under ICAO document 9625 are permitted to substitute the simulator standards and simulator validation tests appendices of AC 120-40B with the corresponding appendices of the ICAO document.
 - Copies of ICAO 9625 may be obtained from ICAO at www.icao.int.
 - The FAA qualification basis description will be **40B/ICAO**.
 - b. Joint Aviation Authorities (JAA), Joint Aviation Requirements, JAR-STD 1A, Aeroplane Flight Simulators, Amendment 3.

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- AC 120-40B, with the exception of appendices 1 and 2 will continue to be used for the airplane simulator qualification along with all applicable requirements under 14 CFR 121 appendix H.
 - Qualifications using alternate means based upon JAR-STD 1A only apply to level C and D airplane flight simulators.
 - Appendix 1 (Simulator Standards) of AC 120-40B may be replaced with JAR-STD 1A Amendment 3, Flight Simulator Standards.
 - Appendix 2 (Simulator Validation Tests) of AC 120-40B may be replaced with JAR-STD 1A Amendment 3, Table of Flight Simulator Validation Tests.
 - Copies of JAR-STD 1A amendment 3 can be obtained from the Joint Aviation Authorities (JAA) at www.jaa.nl.
 - The FAA qualification basis description will be **40B/JAR-STD 1A**.
- c. Federal Aviation Administration (FAA) Draft Advisory Circular (AC) 120-40C, Airplane Simulator Qualification.
- AC 120-40B may be replaced in full with Draft AC 120-40C dated Jul 1, 1995 including all appendices.
 - Copies of Draft AC 120-40C may be obtained at www.faa.gov/nsp/.
 - The FAA qualification basis description will be **Draft AC 120-40C**.
3. **Cancellation:** This guidance bulletin incorporates and updates Guidance Bulletins 03-09 and 03-12. As a result, Guidance Bulletins 03-09 and 03-12 will be cancelled upon the effective date of this bulletin.